UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/733,775	12/08/2000	Hans A. Mische		2947
28534 7590 06/23/2009 MIRICK, O'CONNELL, DEMALLIE & LOUGEE, LLP 1700 WEST PARK DRIVE			EXAMINER	
			PATEL, NIHIR B	
WESTBOROUGH, MA 01581			ART UNIT	PAPER NUMBER
			3772	
			MAIL DATE	DELIVERY MODE
			06/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	09/733,775	MISCHE, HANS A.			
Office Action Summary	Examiner	Art Unit			
	NIHIR PATEL	3772			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>18 Jules</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-11 and 14-27 is/are pending in the a 4a) Of the above claim(s) 3-8,11,14, 15 and 18- 5) ☐ Claim(s) 16 and 17 is/are allowed. 6) ☐ Claim(s) 1, 2, 9, 10 and 25-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	-24 is/are withdrawn from conside	eration.			
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer and the correction is objected to by the Example 11).	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

Application/Control Number: 09/733,775 Page 2

Art Unit: 3772

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 18th, 2009 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 2, 9, 10, 16, 17 and 25-27 have been considered but are moot in view of the new ground(s) of rejection.

Response to Amendment

3. The examiner acknowledges the amendment filed on June 18th, 2009. The amendment comprises amending claims 1, 2, 9, 10, 16, 17 and 25; cancelling claims 11 and 12; and withdrawing claims 3-8, 11, 14, 15 and 18-24. Thus claims 1, 2, 9, 10, 16, 17 and 25-27 are currently pending.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 09/733,775 Page 3

Art Unit: 3772

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 5. Claims **1, 2 and 9** are rejected under 35 U.S.C. 102(b) as being anticipated by Murray (US 4,627,434).
- 6. As to claim 1, Murray teaches an apparatus that comprises a delivery catheter (see figs. 1 and 11; col. 3 lines 24-30); an expandable implant 128 for occupying space within bones (see figs 11 and 12; col. 8 lines 45-50), releasably carried by the delivery catheter; and an inflatable means 80 of expanding the expandable implant (see figs. 11 and 12), the inflatable means of expanding configured for removal from the bone upon expansion of the expandable implant (see col. 10 lines 10-20); whereby the expandable implant mechanically is configured to fixate the fracture after the delivery catheter and the inflatable means of expanding the expandable implant are removed from the bone, leaving the expandable implant within the bone (see col. 10 lines 10-20).
- 7. **As to claim 2,** Murray teaches an apparatus wherein the inflatable means of expanding the expandable implant is an inflatable portion of the delivery catheter configured for removal from the bone after expanding the expandable implant (see col. 10 lines 10-20).
- 8. **As to claim 9,** Murray teaches an apparatus wherein the expanded implant joins separated bone segments (see col. 10 lines 5-16; the fact that the cement fills the canal is defined as joining the separated bone segments).

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 09/733,775

Art Unit: 3772

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 4

- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. Claims **10 and 25-27** are rejected under 35 U.S.C. 103(a) as being unpatentable over Murray (US 4,627,434).
- 12. **As to claims 10 and 25-27,** Murray substantially discloses method steps comprising providing an expandable implant 128 for occupying space within a bone segment (see col. 10 lines 10-20); creating an access hole in bone (see figs 11 and 12); disposing the expandable implant upon a delivery device 10 (see figs. 11 and 12), the delivery device comprising a balloon 80 see figs 11 and 12; col. 7 lines 1-10 and lines 65-68); inserting the expandable implant through the access hole within the bone segment (see figs. 11 and 12); advancing the expandable implant to a desired location within the bone segment (see col. 8 lines 33-40); inflating the balloon in order to cause expansion of the expandable implant (see figs. 11 and 12); removing the balloon from the bone (see col. 10 lines 10-20); and hardening a substance within the bone segment after the removing the balloon step (see col. 10 lines 10-20).

The method steps would have been obvious because they would have resulted from the use of the device of Murray.

Application/Control Number: 09/733,775 Page 5

Art Unit: 3772

Allowable Subject Matter

13. Claims **16 and 17** are allowed. The prior art does not disclose an expandable tubular implant configured to expand from a reduced configuration to an expanded configuration, the expanded configuration comprising a greater diameter and a shorter axial length than the reduced configuration.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NIHIR PATEL whose telephone number is (571)272-4803. The examiner can normally be reached on 7:30 to 4:30 every other Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Bianco can be reached on (571) 272-4940. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 09/733,775

Page 6

Art Unit: 3772

/Nihir Patel/ Examiner, Art Unit 3772

/Patricia Bianco/

Supervisory Patent Examiner, Art Unit 3772